

UNITED STATES PATENT AND TRADEMARK OFFICE



APPLICATION NO.	0. FILING DATE 06/29/2001		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/896,281			Dwight H. Warkentin	P-9002.00		
27581	7590	01/14/2004		EXAMINER		
MEDTRO			OROPEZA, FRANCES P			
MS-LC340	RONIC PA	ARKWAY NE	ART UNIT	PAPER NUMBER		
MINNEAP	OLIS, MN	N 55432-5604	3762			
				DATE MAILED: 01/14/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

13		Ар	plication No.		Applicant(s)					
•			/896,281		WARKENTIN, DWIGHT H.					
	Office Action Summary		aminer		Art Unit					
	**•	Fra	inces P. Oropeza	ļ	3762					
The MAILING DATE of this c mmunication appears on the cover sheet with the correspondence address										
Period fo	• •		SET TO EVOIDE A	NACNITI I/C) FROM					
THE I - External after - If the - If NC - Failurian - Any I	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNICATION of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this communication period for reply specified above is less than thirty (30) of period for reply is specified above, the maximum stature to reply within the set or extended period for reply with eply received by the Office later than three months after than the patent term adjustment. See 37 CFR 1.704(b).	ATION. 37 CFR 1.136(a). ication. days, a reply withir tory period will app II, by statute, cause	In no event, however, may an the statutory minimum of the statutory minimum of the statutory and will expire SIX (6) MC at the application to become a	a reply be time hirty (30) days ONTHS from th ABANDONED	uly filed will be considered timel ne mailing date of this or (35 U.S.C. § 133).					
1)⊠	Responsive to communication(s) filed	on <u>12/4/03 (</u> /	<u>Amendment)</u> .							
2a)⊠	This action is FINAL . 2b)	☐ This actio	n is non-final.							
3)[Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.									
Dispositi	on of Claims									
-	4)⊠ Claim(s) <u>1-51</u> is/are pending in the application.									
	4a) Of the above claim(s) <u>8-51</u> is/are withdrawn from consideration.									
· · · · · · · · · · · · · · · · · · ·	5) Claim(s) is/are allowed.									
-	6) Claim(s) 1-7 is/are rejected.									
	7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.									
	on Papers	on anaron cic	otion requirement.							
	·	Evaminer								
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.										
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).										
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).									
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.										
Priority (ınder 35 U.S.C. §§ 119 and 120									
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. a) The translation of the foreign language provisional application has been received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. Attachment(s)										
	t(s) e of References Cited (PTO-892)		4) Intention	v Summan/	PTO-413) Paper No(s)				
2) Notic	te of References Cited (P10-892) te of Draftsperson's Patent Drawing Review (PT0 mation Disclosure Statement(s) (PT0-1449) Pap				tent Application (PTC					

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DETAILED ACTION

Election/Restrictions

1. Claims 42-47 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected invention, there being no allowable generic or linking claim. The Applicant timely traversed the restriction (election) requirement in Paper No.13.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Bakels et al. (US 6070100). Bakels et al. disclose a pacing system for optimizing cardiac output in a four chamber pacing system. The impedance signal changes that reflect the duration/widening of the QRS portion of the cardiac signal are utilized to control the pacing and interval timing (abstract; col. 1 @ 6-10 and 33-36; col. 3 @ 61 – col. 4 @ 10; col. 6 @ 42-46; col. 6 @ 61 – col. 7 @ 30; col. 7 @ 49 – col. 8 @ 8; col. 8 @ 58 – col. 9 @ 29; col. 9 @ 37-42; col. 9 @ 58 – col. 10 @ 31).

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4. Claim 1 is rejected under 35 U.S.C. 102(e) as being anticipated by Boute (US 6129744). Boute discloses a cardiac treatment system for a 3- or 4- chamber pacemaker utilizing QRS duration changes to optimizing pacing treatment (abstract; col. 1 @ 31-34; col. 3 @ 28-34; col. 4 @ 30-43; col. 5 @ 35-41; col. 6 @ 18-25; col. 6 @ 38 – col. 7 @ 5; col. 8 @ 25-42; col. 9 @ 49-62).

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 1-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Thompson et al. (US 5902324) in view of Kieval et al. (US 5749906).

Thompson et al. disclose a multi-chamber pacing system substantially as claimed in the instant invention. The interval timings are programmed values (abstract; col. 10 @ 61 – col. 11 @ 7; col. 12 @ 17-28; col. 12 @ 54 – col.13 @ 10; col. 13 @ 54 – col. 14 @ 14; col. 14 @ 39 – col. 15 @ 47; col. 16 @ 45-57; col. 18 @ 28 – col. 19 @ 30).

As discussed in the previous paragraph of this action, Thompson et al. disclose the claimed invention except for the timing of the interval being adjusted based on the measured duration of the QRS complex of the heart.

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Kieval et al. teach interval timing adjustment using the duration of the QRS complex for the purpose of optimizing the timing of delivery of pacing pulses for patients with cardiomyopathy. It would have been obvious to one having ordinary skill in the art at the time of the invention to have used the duration of the QRS complex to adjust the timing of the intervals in the Thompson et al. system in order to enable continuous real-time adjustment of the timing intervals so the impact of heart rate and drug treatments on the timing intervals is utilized to optimize the patient therapy (abstract; col. 2 @ 43-61; col. 3 @ 18-33; col. 5 @ 29-65).

Statutory Basis

7. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

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shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Fran Oropeza, telephone number is (703) 605-4355.

The Examiner can normally be reached on Monday — Thursday from 6 a.m. to 4:30 p.m.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's Supervisor, Angela D. Sykes can be reached on (703) 308-5181. The fax phone number for the organization where this application or proceeding is assigned is (703) 306-4520 for regular communication and for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Receptionist, telephone number is (703) 308-0858.

Frances P. Oropeza Patent Examiner Art Unit 3762

J80 1/8/04

ANGELA D. SYKES
SUPERMODING PATENT EXAMINER
TICHMOLOGY CENTER 3700

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